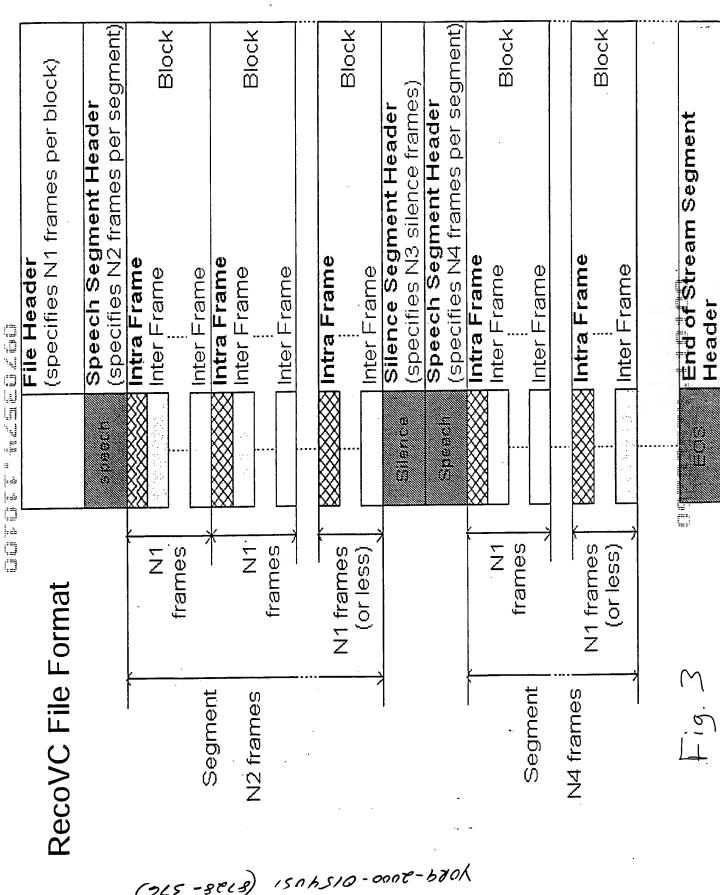


Input bitstream (Coded Cepstra + Pitch) DEMUX 211 Pitch Decompression MFCC Decompression Pitch **MFCC** 216 Speech Recognition Sinusoidal Speech Synthesis Back End Reconstructed speech for playback Text



1504510-0008-670K (918-8818) 81/8

RecoVC File Header

Field Name	M/O	Number of bytes	Value(s)	Description
Recovc magic number	W	4 bytes	0x2E727663	A fixed value which equals ".rvc" in ASCII representation. Used to verify that this is indeed a Recovc file.
Header length Version Major	₹ ₹	2 byte 1 byte	13-(2^16-1)	Total number of bytes in this header File format major version number
Version Minor Frame duration	\$ \$	1 byte 1 byte	0-255 0x00	In index into the frame duration table below. Currently, only 10 msec frames are supported.
Frames per block	×	1 byte	1-255	Each block can contain one intra-frame only, or one intra-frame with up to 244 additional inter-frames.
Sampling rate Cepstra dimension	× ×	I byte I byte	0x00, 0x01 or 0x02 0x00 or 0x01	Index into Sampling rate table below. Index into Cepstra vector dimension I type below
Language	W	1 byte	0000	Index into languate table below Index into profile table below
Profile Total frames	₹ 0	1 byte 4 bytes	0-(2^32-2) or 0xFFFFFFF	Total number of audio frames in this file, INCLUDING silence frames.
Total speech frances	0	4 bytes	0-(2^32-2) or 0xFFFFFFF	Total number of audio frames in this file, EXCLUDING silence frames.
< Ancillary Data >	0			Reserved for future usage

7 514

(968-3868) 150 p510-0008-670K

Frame Duration Table

Code Duration (msec) 0x00 10 0x01-0xFF Reserved		
0x00 10 0x01-0xFF Reserved	Code	Duration (msec)
	0×00	10
	0x01-0xFF	Reserved

Sampling Rate Table

	[D.A. [[]]
Code	Input Sampling Kate [77]
0×00	0008
0×0/	11025 (or 11000)
0×02	*00091
0x03	22050 (or 22000)
0x04- 0xFF	Reserved

Cepstra Vector Dimension / type Table

Code	Code Value
0x00	13
0x01	24
0x02- 0xFF	0x02- 0xFF Reserved

Language Table

	Description	
Code	Code	
0000		ENGILSA
0x01-0xFF	Reserved	0x01-0xFF Reserved
	•	

(768-8068) ISO HS10-0008-670K

Profile Table

Code	Description
	Recognition only - Only Cepstra is available
	in this file
0x01	Reconstruction enabled - Cepstra and pitch is
	available in the file
0x02- 0xFF	Reserved

Speech and Silence Segment Headers (5 Byte)

Field Name M/O	M/O	Number of Value(s)	Value(s)	Description
		Dyles		
Segment	Σ	1 byte	0x00 or 0x01	Index into segment type table below
tribo l	:			(speech or silence)
adh				The of from on this
Number of	Σ	4 bytes	0-(2^31-2) or	The total number of figures in this
	:			tuo mont
frames			frames	

End of Stream and Data Segment Headers

Field Name	M/O	Number of	Value(s)	Description
		bytes		
Seament type	Σ	1 byte	0x02 or	Index into segment type table below
odk momboo		•	0x03-0xFF	(end of stream or data)
Sorment	Σ	4 bytes	5-(2^31-1)	The total number of bytes in this
longth			•	segment
יבוולמון	C			Place optional data here
Ancillary)	•	•	
Data >				

95

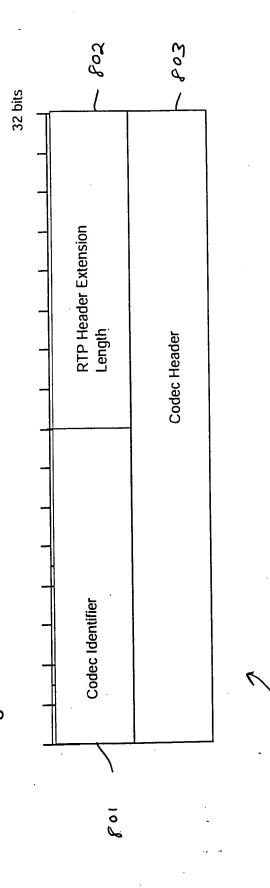
(968-8868) ISN p. S10 -0004-670K

32 bits				100 min
700	Sequence Number	308	titiers 709	012
	Segueni		- (SSRC) Idm	tributing Source (CSRC) Identifiers
	Payload Type (Pt)	Timestump	Synchronization Source (SSRC) Identifiers 709	Contributing Sour
ê	Σ	·	Synch	
	>>			
	V=2 P X			

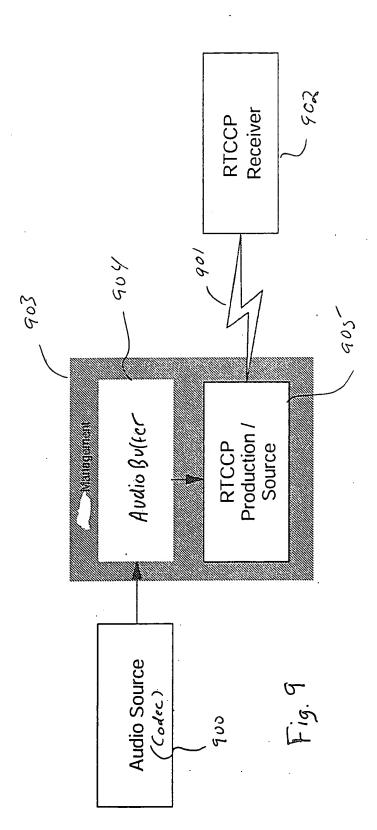
Fig.

(3CE-8EL8) 150 h510-000E-680K

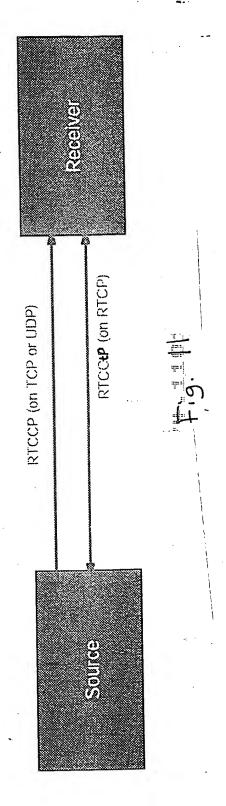
RTP initiated around RecoVC.xxx with X=1 or Changes of CODEC:



(208-8018) 150 hs10-0008-670K



Protocols structure:



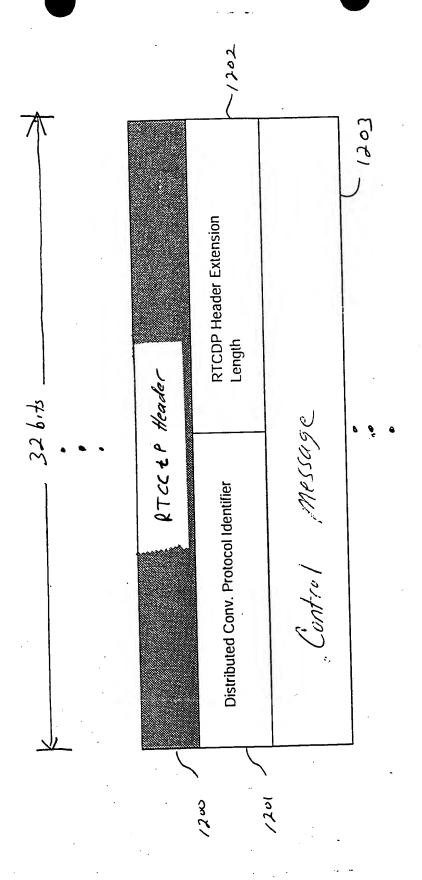
(918-8818) ISANSIO -0008-600/

10/18 40R9-2000-0154USI (8728-

1 Packet = one or more blocks Block N Inter-frames Intra-frame П

Fig. 10

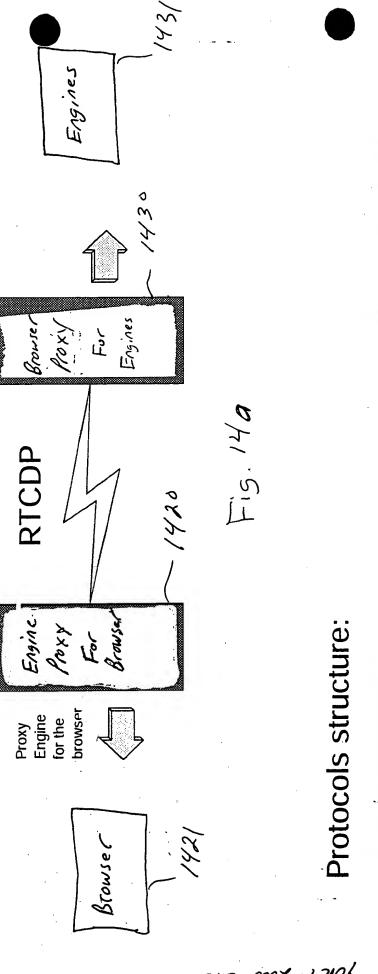
Packet-Based format:



7.9.1

(165-868) 1504580 ·000-470K

RTCDP wrapper/proxy for browsers and servers

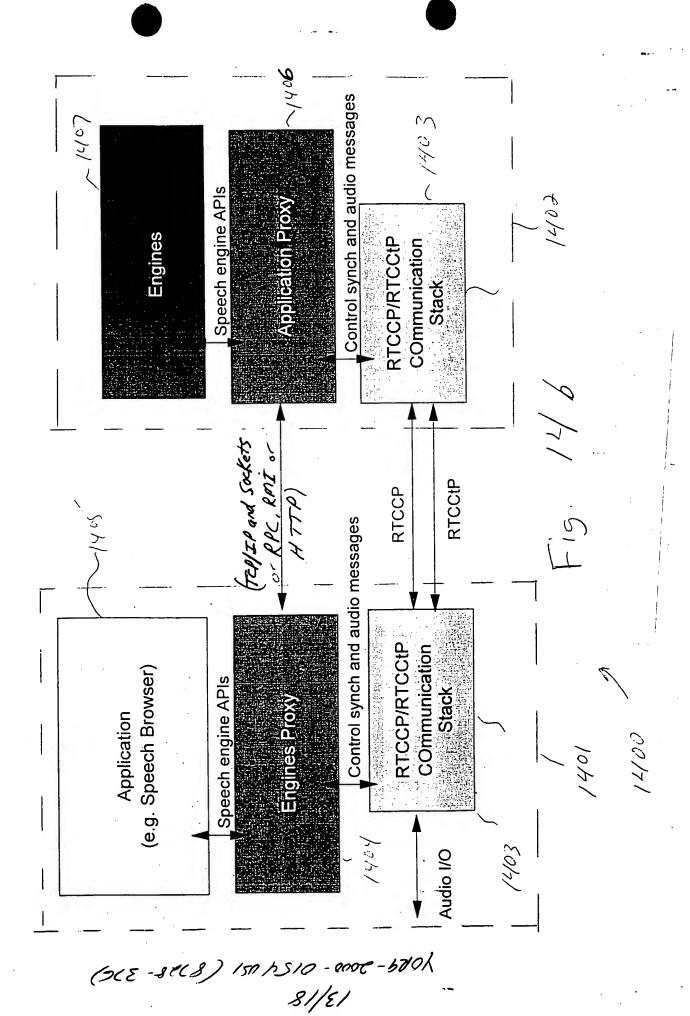


Receiver

RTCDP & RTCCIP (on RTCP)

RTCCP (on TCP or UDP)

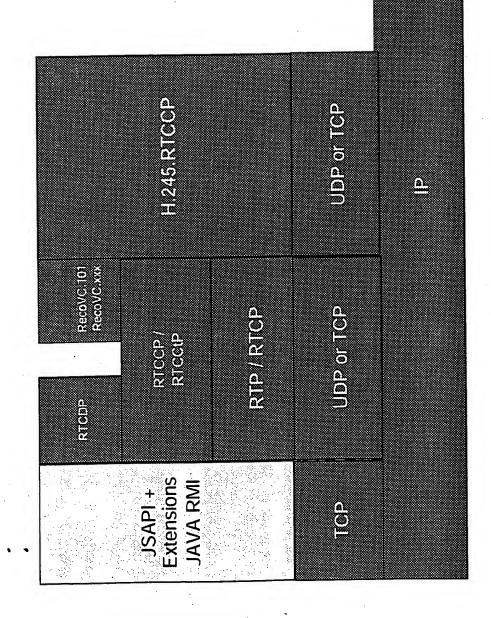
(218-3013) 150 h510-0008-670K



Conversational protocols (Umbrella stack)

igher Lovel

4015

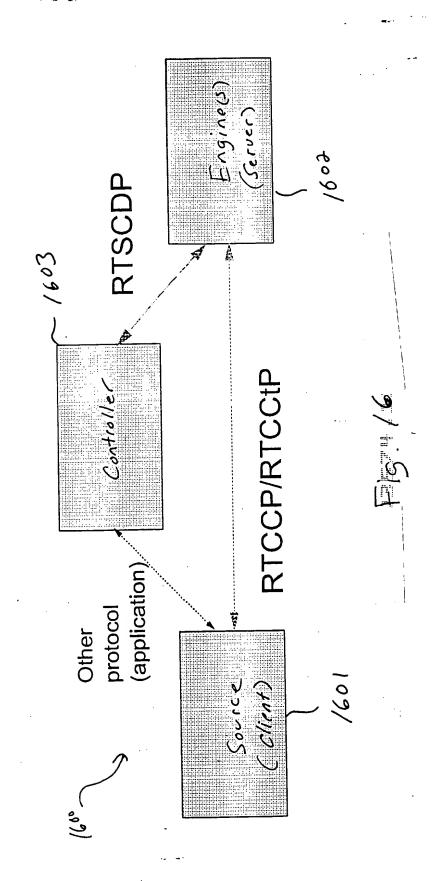


(Including other

conversational protocols)

(DCE-SELS) ISOUSIQ-000E-130K 81/h/

RTSCDP - Real Time Streaming Conversational Distributed Protocols



(968-8018) ISONS10-0000-500K

(918-8818) 150 h510 -000l-640h 81/9/

